

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07065847 A**

(43) Date of publication of application: **10 . 03 . 95**

(51) Int. Cl

H01M 8/02
H01M 8/10

(21) Application number: **05208085**

(22) Date of filing: **24 . 08 . 93**

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**(54) SOLID HIGH POLYMER ELECTROLYTE TYPE
FUEL CELL**

(57) Abstract:

PURPOSE: To provide a solid high polymer electrolyte type fuel cell provided with a fuel cell which is improved so that the mechanical strength and easiness of handling can be increased and the required area for an electrolyte layer can be reduced.

CONSTITUTION: A solid high polymer electrolyte fuel unit cell 1 uses a fuel cell assembly 2 formed by adding a reinforcement frame 3 to a fuel cell 7 and separators 8A and 8B in comparison with a conventional unit cell. The reinforcement frame 3 is formed by connecting polycarbonate flat reinforcement frame members 31 and 32 air-tightly to each surface at the periphery edges of a PE film 7C using silicone sealant. In the separators 8A and 8B, the high of the periphery part of them are reduced more than of the conventional separators with the thickness of reinforcement frame members 31 and 32 taken into consideration and thus the contact of the projected part of protruded partitions 82C and 82D with the side faces 7a and 7b of the fuel cell 2 can be maintained in good condition.

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